

## Catalog of State Actions

### Residential, Commercial and Industrial (RCI) Technical Working Group

A catalog of state-level, GHG-reducing actions and policy options based on actions undertaken or considered by state, local and private actors. Brief descriptions of these options, and some of the related state actions underway, are available in a companion document.

#### Key to Future Rankings of Options in the Tables that Follow:

| Potential GHG Emission Reductions <u>1/</u>  | Potential Cost or Cost Savings <u>1/ 2/</u>  |
|--|--|
| <b>High (H):</b> At least 1.0 million metric tons (MMt) carbon dioxide equivalent (CO <sub>2</sub> e) per year by 2020 (~1% of current WA emissions)                           | <b>High (H):</b> \$50 per metric ton CO <sub>2</sub> e (tCO <sub>2</sub> e) or above |
| <b>Medium (M):</b> From 0.1 to 1.0 MMtCO <sub>2</sub> e per year by 2020   | <b>Medium (M):</b> \$5-50/tCO <sub>2</sub> e   |
| <b>Low (L):</b> Less than 0.1 MMtCO <sub>2</sub> e per year by 2020, or 1 MMtCO <sub>2</sub> e by 2050   | <b>Low (L):</b> Less than \$5/tCO <sub>2</sub> e                                     |
| <b>Uncertain (U):</b> Not able to estimate at this time  | <b>Negative (Neg):</b> Net cost savings  |
|  | <b>Uncertain (U):</b> Not able to estimate at this time                              |
| <u>1/</u> Several measures may overlap in terms of emissions reductions and/or cost impacts. Estimates assume measures would be implemented independently from other measures. |  |
| <u>2/</u> Costs are denoted by a positive number. Cost savings (i.e., “negative costs”) are denoted by a negative number.  |  |

#### Definition of “Priorities for Analysis”:

- **High:** High priority options will be analyzed first.
- **Medium:** Medium priority options will be analyzed next, time and resources permitting.
- **Low:** Low priority options will be analyzed last, time and resources permitting.

#### Notation of Options:

\* **Options marked in bold with an asterisk (\*)** indicate some of the related state actions that are approved or underway, as described further in the companion options description document. TWG members are encouraged to provide information on other relevant actions.

| Option No.   | GHG Reduction Policy Option  | Potential GHG Emissions Reduction | Cost per Ton | Externalities, Feasibility Considerations | Priority for Analysis | Notes / Related Actions in WA State   |
|--------------|--|-----------------------------------|--------------|---|-----------------------|---|
| <b>RCI-1</b> | <b>ENERGY EFFICIENCY PROGRAMS, FUNDS, AND GOALS</b>  |                                   |              |   |                       |   |
| 1.1          | Demand-Side Management (DSM)/Energy Efficiency Programs, Funds, or Goals for Electricity (including expansion of same)** |                                   |              |   |                       | Utility DSM Programs  |
| 1.2          | Demand-Side Management (DSM) Energy Efficiency Programs, Funds, or Goals for Natural Gas, Propane, and Fuel Oil          |                                   |              |   |                       |   |
| 1.3          | Regional Market Transformation Alliance**  |                                   |              |   |                       | Northwest Energy Efficiency Alliance  |
| <b>RCI-2</b> | <b>BUILDINGS</b>   |                                   |              |   |                       |   |
| 2.1          | <b>Improved Building Codes for Energy Efficiency*</b>  |                                   |              |   |                       | WA Building Code Council has adopted rules addressing min. efficiency requirements to comply with state/federal mandates  |
| 2.2          | <b>Promotion and Incentives for Improved Design and Construction (e.g. LEED, green buildings) in the Private Sector</b>  |                                   |              |   |                       | City of Seattle's LEED Incentive for commercial projects; Seattle's Built Green Incentive for residential single and multi-family projects.   |
| 2.3          | <b>Improved Design and Construction*</b> , "Government Lead-by-example"  |                                   |              |   |                       | Executive Order 05-01, directing adoption of green building practices in construction of new, some renovated existing state buildings (>25,000 ft <sup>2</sup> ); High-Performance Public Buildings bill (Chapter 39.35D RCW), requires all new state-funded facilities over 5,000 square to meet green building standards; |

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|              |   |                                   |              |   |                       | Executive Order 05-01 mandates 10% reduction in State Agency energy purchases from 2003 levels by 9/1/2009; LEED silver standards for WA public buildings   |
| 2.4          | Support for Energy Efficient Communities Planning, "Smart Growth"   |                                   |              |   |                       |   |
| <b>RCI-3</b> | <b>APPLIANCE STANDARDS</b>  |                                   |              |   |                       |   |
| 3.1          | <b>More Stringent Appliance/Equipment Efficiency Standards*</b>   |                                   |              |   |                       | 2005 Legislature adopted minimum efficiency standards for 12 products (RCW 19.260.040); 2006 legislation established minimum efficiency standards for 8 types commercial appliances, heating/cooling and lighting equipment sold within the State |
| <b>RCI-4</b> | <b>EDUCATION AND OUTREACH</b>   |                                   |              |   |                       |   |
| 4.1          | Consumer Education Programs   |                                   |              |   |                       |   |
| 4.2          | Energy Efficiency and Environmental Impacts Awareness in School Curricula                                       |                                   |              |   |                       |   |
| 4.3          | Post-secondary Specialist Education and Certification for Building Energy Efficiency Experts and Related Trades |                                   |              |   |                       |   |
| 4.4          | Post-secondary College and University Programs  |                                   |              |   |                       |   |
| <b>RCI-5</b> | <b>PRICING AND PURCHASING</b>   |                                   |              |   |                       |   |
| 5.1          | Green Power Purchasing for Consumers  |                                   |              |   |                       |   |

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| 5.2          | Net-metering for Distributed Generation and Combined Heat and Power                  |                                   |              |   |                       |   |
| 5.3          | Rate structures and Technologies to Promote Reduced GHG Emissions                    |                                   |              |   |                       |   |
| 5.4          | Bulk Purchasing Programs for Energy Efficiency or Other Equipment                    |                                   |              |   |                       |   |
| <b>RCI-6</b> | <b>CUSTOMER-SITED DISTRIBUTED ENERGY AND COMBINED HEAT AND POWER</b>                 |                                   |              |   |                       |   |
| 6.1          | Incentives for to Promote Implementation of Renewable Energy Systems*                |                                   |              |   |                       | Executive Order 05-01 mandates 10% reduction in State Agency energy purchases from 2003 levels by 9/1/2009, including through use of renewable energy |
| 6.2          | Incentives and Resources to Promote Combined Heat and Power (CHP, or “cogeneration”) |                                   |              |   |                       |   |
| <b>RCI-7</b> | <b>GHG EMISSIONS-SPECIFIC GOALS AND POLICIES, INCLUDING PROCESS EMISSIONS</b>        |                                   |              |   |                       |   |
| 7.1          | GHG Cap and Trade Program (for RCI Sectors)  |                                   |              |   |                       |   |
| 7.2          | GHG or Carbon Tax  |                                   |              |   |                       |   |
| 7.3          | Switching to Lower GHG Fuels   |                                   |              |   |                       |   |
| 7.4          | Policies and/or Programs Specifically Targeting Non-energy GHG Emissions             |                                   |              |   |                       |   |
| 7.5          | Negotiated/Voluntary Emissions or Energy Savings Agreements                          |                                   |              |   |                       |   |